

What is claimed is:

1. A polarizer manufacturing method, said method comprising:  
placing a material on a dip-pen;

5 bringing said dip-pen into contact with a base to transfer said  
material to said base; and  
hardening said material over said base.

2. The polarizer manufacturing method according to claim 1,  
10 wherein a hardening process is used to drying said material.

3. The polarizer manufacturing method according to claim 1,  
wherein said material is dichroic material.

15 4. The polarizer manufacturing method according to claim 1,  
wherein said material is birefringent material.

5. The polarizer manufacturing method according to claim 1,  
wherein said dip-pen is a tip of an Atomic Force Microscope (AFM).  
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6. The polarizer manufacturing method according to claim 1,  
wherein said materials are transferred to the polarizer base by  
capillarity.

25 7. The polarizer manufacturing method according to claim 1,

wherein a transparent macromolecule material or glass is used to form the polarizer base.

8. A polarizer manufacturing method, said method comprising:  
5 forming a material on a dip-pen;  
brining said dip-pen into contact with a base to transfer said material to said base;  
hardening said material over said base;  
forming a protection layer over a surface of said base; and  
10 performing a hardening process to harden said protection layer.

9. The polarizer manufacturing method according to claim 8, wherein a hardening process is used to drying said material.

10. The polarizer manufacturing method according to claim 8, wherein said material is dichroic material.

11. The polarizer manufacturing method according to claim 8, wherein said material is birefringent material.

12. The polarizer manufacturing method according to claim 8, wherein said dip-pen is a tip of an Atomic Force Microscope (AFM).

13. The polarizer manufacturing method according to claim 8,

wherein said materials are transferred to the polarizer base by capillarity.

14. The polarizer manufacturing method according to claim 8,  
5 wherein a transparent macromolecule material or glass is used to form the polarizer base.